

Canadian-Australian Royal Mail STEAMSHIP COMPANY

Steamer of the above line, running in connection with the CANADIAN PACIFIC RAILWAY COMPANY between Vancouver, B. C. and Sydney, N. S. W., and calling at Victoria B. C., Honolulu and Brisbane, Q.

Due at Honolulu on or about the dates below stated, viz:

FOR AUSTRALIA.	FOR VANCOUVER.
MOANA JAN. 17	MOANA JAN. 17
MOANA FEB. 14	MOANA FEB. 14
MOANA MARCH 11	MOANA MARCH 11
MOANA APRIL 8	MOANA APRIL 8
MOANA MAY 5	MOANA MAY 5

Calling at Suva, Fiji, on Both
Up and Down Voyages

THEO. H. DAVIES & CO., Ltd., Gen'l Agts.

Pacific Mail Steamship Co. Occidental & Oriental S. S. Co. and Toyo Kisen Kaisha.

Steamers of the above Companies will call at Honolulu and leave this port on or about the dates below mentioned:

FOR CHINA AND JAPAN.	FOR SAN FRANCISCO.
COPTIC JAN. 10	GAELIC JAN. 13
AMERICA MARU JAN. 17	HONGKONG MARU JAN. 20
KOREA JAN. 24	CHINA JAN. 27
GAELIC FEB. 4	DORIC FEB. 7
HONGKONG MARU FEB. 11	NIPPON MARU FEB. 14
CHINA FEB. 18	SIBERIA FEB. 21
DORIC FEB. 25	COPTIC MARCH 3
NIPPON MARU MARCH 10	AMERICA MARU MARCH 13
SIBERIA MARCH 17	KOREA MARCH 20
COPTIC MARCH 24	GAELIC MARCH 27

For general information apply to

H. Hackfeld & Co.

Oceanic Steamship Company.

TIME TABLE

The fine Passenger Steamers of this line will arrive at and leave this port as hereunder:

FROM SAN FRANCISCO.	FOR SAN FRANCISCO.
SONOMA JAN. 14	ZEALANDIA JAN. 8
ALAMEDA JAN. 21	VENTURA JAN. 15
VENTURA FEB. 4	ALAMEDA JAN. 22
ALAMEDA FEB. 11	SIERRA FEB. 5
SIERRA FEB. 18	ALAMEDA FEB. 12
ALAMEDA MARCH 4	SONOMA FEB. 19

*Local Boat.

In connection with the sailing of the above steamers, the Agents are prepared to issue to intending passengers coupon through tickets by any railroad from San Francisco to all points in the United States, and from New York by steamship line to all European Ports.

For further particulars apply to

W. G. Irwin & Co.

General Agents Oceanic S. S. Company.

AMERICAN HAWAIIAN STEAMSHIP COMPANY.

DIRECT MONTHLY SERVICE BETWEEN NEW YORK AND HONOLULU, VIA PACIFIC COAST.

FROM NEW YORK.

S. S. AMERICAN, to sail about December 31.
S. S. HAWAIIAN, to sail about January 20.
Freight received at Company's wharf 422 Street, South Brooklyn, at all times.

FROM SAN FRANCISCO:

S. S. NEVADAN, to sail about January 2.
S. S. NEBRASKAN, to sail about January 20.
and every sixteen days thereafter.
Freight received at Company's wharf, Stewart Street, Pier No. 20.

FROM HONOLULU TO SAN FRANCISCO:

S. S. NEBRASKAN, to sail about December 31.
S. S. NEVADAN, to sail about January 20.

FROM SEATTLE AND TACOMA:

S. S. CALIFORNIAN to sail about December 31.

H. Hackfeld & Co.,

C. P. MORSE, General Freight Agent.

AGENTS.

THE WAHIAWA DITCH

In the current issue of Thrums Annual there is given the following interesting account of the Wahiawa ditch which is the beginning of the utilization of an immense amount of water that annually falls on the Koolau range of mountains, but has not up to the present been utilized except as nature has brought it to where it can be. The article is written by W. B. Thomas.

On the 10th of May, 1902, the water was turned for the first time from the north branch of the Kaula stream into the ditch of the Wahiawa Water Company. This was an important event in the history of the Wahiawa Colony, as the question of an abundant water supply for irrigation and domestic purposes was settled for all time. The source of this water is in the rain belt of the Koolau mountains, east of Wahiawa, and is practically never-failing. Scarcely a day passes, particularly in the summer months, that it does not rain in this point in the range.

Work on the system was commenced in June, 1900. First preliminary surveys were made and trails constructed. One trail six miles long was made on the top or ridge of the mountain, in order to get to the headwaters of the stream. This was completed in July, 1900. A contour trail was then begun by ascertaining the point at which it was desired to discharge the water on the Colony lands to the point at which it could be taken from the stream. This trail is twelve miles long. Both trails had to be cut through impassable jungles of ferns, vines and trees, often on the precipitous side of the mountain, and required a great deal of labor and expense to build. The scenery along the mauka trail is indescribably grand. Probably nowhere else on the island is it possible to view our luxuriant natural tropical growth as here.

In the construction of the ditch there are thirty-seven tunnels, with an aggregate length of 16,740 feet. The longest tunnel is 1,860 feet and cuts off three miles of contour trail. Of open ditch in the mountains there are 3,319 feet; embanked ditch, 3,200 feet; fluming (in storm-water overshoots) 300 feet. Length of distributing ditches on Colony lands, 30,325 feet. The number of yards moved in construction of ditch is as follows: Earth, 24,836; soft rock, 27,423; hard rock (requiring blasting), 3,158. The total cost of the work was \$80,000.

The capacity of the ditch is 140 cubic feet per second (3,769,920 gallons per hour) and one-third of the water passing through it belongs to and is inseparable from the lands of the Wahiawa Colony. The remaining two-thirds goes to the Waialua Agricultural Co.

At the lower end of the main ditch, a short distance below the point at which the colony water is taken out, the Company will erect an electric power plant the coming year. There is at this point an available fall of 210 feet, and it is estimated that 400 horse power can be generated. This will be transmitted to Waialua and used in running the plantation pumps.

H. Clay Kellogg, of Santa Ana, Cal., was the chief engineer. He was assisted by Eugene Valjean, of Anaheim, Cal., who towards the last had the entire supervision of the work. L. G. Kellogg, of Wahiawa, (brother of the chief engineer) is manager of the company and has acted in that capacity since its inception.

INVENT A POUCH FOR DISTRIBUTING STAGE-ROUTE MAIL.

SANTA ROSA, Dec. 23.—Postmaster George B. Baer of Cloverdale, in the northern portion of this county, has invented a small canvas pouch for use in the distribution of mails along stage routes emanating from his office, which has proved eminently satisfactory. The Postal Department has taken hold of the matter and intends using them on the stage routes all over the country, and Baer is to receive a royalty on all that are manufactured by the Government. The device is simple—a pouch on the order of the large mail sacks, with two sets of fastenings. The mail of each person along the line is placed in a separate sack, bearing the name, and thus the stage driver is relieved of the necessity of sorting the mail as he goes along. The sacks are hung on a hook placed for that purpose and returned to the Postoffice daily. Frequently parties send for stamps and money orders in these sacks placing their money and their application in the sack which is then securely locked.

SHIPPING INTELLIGENCE

(For additional and later shipping see pages 4, 5, or 8.)

ARRIVING.

Friday, January 9.
Gaso, schr. Eclipse, Townsend, from Hawaii and Maui ports, at 10 p. m., with 400 bags coffee, 100 bags awa root, 300 bags charcoal, 20 cords wood.

Saturday, January 10.
Stmr. Noeau, Pederson, from Kukulhae, Hiamakua and Waipio, at 1:45 a. m., with 3144 bags sugar, 10 bags wheat, 5 pkgs. sundries.

S. S. Coptic, Rinder, from San Francisco at 7:30 a. m.

Stmr. Kinau, Freeman, from Hilo and way ports, due about noon.

Stmr. Hawaii, Nelson, from Lanai, Maui and Molokai ports, due in afternoon.

S. S. Nevadan, Weedon, from San Francisco, due.

Sunday, January 11.
Stmr. W. G. Hall, S. Thompson, from Kaula ports, due early in morning.

Stmr. Claudine, Parker, from Maui ports, due early in morning.

DEPARTING.

Saturday, January 10.
S. S. Coptic, Rinder, for the Orient at 4 p. m.

PASSENGERS.

Arriving.
Per S. S. Coptic, January 10, from San Francisco—Col. George W. Macfarlane, to stopover at Honolulu Mr. and Mrs. B. B. Brown and son, Mrs. S. J. Dickenson, through for Yokohama, Commander G. L. Dyer.

For Shanghai—F. C. Cooper, Mrs. F. C. Cooper, Mrs. William Guild and child, L. G. Emory, A. E. Jessup P. Kamp, J. M. Lachlan, F. Vorwerk.
For Hong Kong—Rev. T. W. Burkholder, Mrs. T. W. Burkholder, W. E. Crossman, P. L. Flanagan, Max Hart, W. J. Kameo, Dr. D. W. Ralston, R. M. McWade, Mrs. R. M. McWade, Miss May McWade.

Booked to Depart.
Per S. S. Ventura, January 13, for San Francisco: J. F. Hackfeld, Mrs.

A.B.C. BEERS

Guaranteed Pure.
None So Good.

Sold Everywhere.

Another Beautiful Residence

Is Now Being Erected In

PAWAA
TRACT

There are only four chances left for the selection of a home in this most popular residence district.

For particulars see

W. M. Campbell

AT HIS OFFICE ON PREMISES.

1634 Young Street.

Phone White 2111.

Or Special Agent.

W. M. Minton,

JUDD BUILDING.

Twenty-five cents pays for a Want ad in the Star. A bargain.

A New Home Sewing Machine

Is generally regarded as the best Machine
on the market to-day.

In these days while some manufacturers are flooding the country with worthless sewing machines and issuing circulars wherein they have copied the legitimate claims of reputable companies, many purchasers become bewildered and puzzled and find it difficult to make a selection. The popularity that the New Home Machines have earned and which they maintain throughout the world is evidence of their superiority and as we have always enjoyed the enviable reputation of handling only first class machines, there need be no hesitation in buying from us. We also handle the Pan-American Hand Sewing Machine.

Theo. H. Davies & Co., LIMITED

KAAHUMANU STREET.

HONOLULU, T. H.

Order Your Turkey Now

Don't put off till the last moment ordering your turkey because if you don't have so good a show of getting just what you want. If you want something very choice we have it in the best island live turkeys, as well as California turkeys dressed. Big stock also of

Ducks, Geese and Chickens

Metropolitan Meat Co., Ltd Telephone Main 45

WON & LOUI CO.

Hotel street, near Smith.

Sanitary Plumbers, Tinsmiths, and Sheet Iron Workers.
Water Pipe and Gutter Work in all its branches.
Orders filled with dispatch.

OHTA,

Contractor and Builder,
.....House Painter

.....Sheridan Street, near King
Honolulu, H. I.

S. Kojima.

IMPORTER AND
DEALER IN

LIQUORS,

Japanese Provisions.

General Merchandise,
AND PLANTATION SUPPLIES.

C. 45 HOTEL STREET, HONOLULU.

Telephone White 2411.

P. O. Box 906.

LINOLEUM—

New patterns just received. 2 grades of the inlaid, and 3 grades of the printed.

RUGS—IMPORTED AND AMERICAN.

All sizes and grades.

WINDOW SHADES—
Several colors, and any size.

BARBER'S CHAIRS MAT-
TING, PORCH SCREENS,
FURNITURE COVERINGS,
ETC., ETC.

A full line of New Furniture for the Christmas season.

Upholstering, Repairing and Hand Polishing done by first class workmen.

King and Bethel Streets.

Phone Main 111.

Twenty-five cents pays for a Want ad in the Star. A bargain.

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Ad in The Star A BARGAIN